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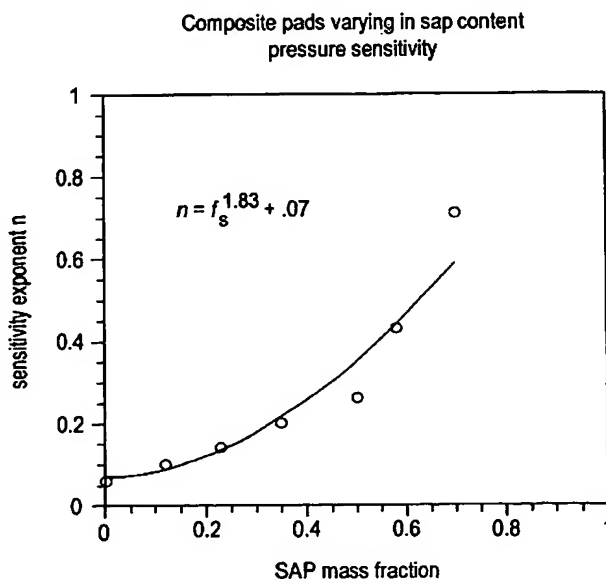
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(54) Title: DESIGNING DRY AND POROUS ABSORBENT COMPOSITES CONTAINING SUPER-ABSORBENT POLYMERS



(57) Abstract: Super-absorbent polymer composites and a method for designing the composites are presented. A target weight of aqueous liquid to be absorbed is used in conjunction with a dryness quality value and, optionally, a porosity quality value to define types and masses of both super-absorbent polymer and a substruction meshwork which are intermixed to provide a composite which optimally minimizes free liquid and provides sustained tactile dryness after the targeted weight of aqueous liquid has been absorbed. In one form of the invention, the super-absorbent polymer and/or absorption composite derive from the use of computer-implemented determination of the absorption design-instance parameters.

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